

JA

#12

PCT09

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/979,549

DATE: 12/04/2001

TIME: 11:51:40

Input Set : A:\es.TXT

Output Set: N:\CRF3\11212001\I979549.raw

ENTERED

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4 <110> APPLICANT: INSTITUT NATIONAL DE LA RECHERCHE AGRONOMIQUE (INRA)
5     GAUTIER, Marie-Francoise
6     IHORAI, Tania
7     JOUDRIER, Philippe
10 <120> TITLE OF INVENTION: PROMOTER OF THIOREDOXINE TaTrxh2 IN
11     WHEAT
13 <130> FILE REFERENCE: ORES10.001APC
C--> 15 <140> CURRENT APPLICATION NUMBER: US/09/979,549
C--> 16 <141> CURRENT FILING DATE: 2001-11-20
18 <150> PRIOR APPLICATION NUMBER: FR 9906231
19 <151> PRIOR FILING DATE: 1999-05-17
21 <150> PRIOR APPLICATION NUMBER: PCT/FR00/01318
22 <151> PRIOR FILING DATE: 2000-05-17
24 <160> NUMBER OF SEQ ID NOS: 2
26 <170> SOFTWARE: FastSEQ for Windows Version 4.0
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29 <211> LENGTH: 2687
30 <212> TYPE: DNA
31 <213> ORGANISM: Triticum aestivum
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35 <222> LOCATION: (1112)...(1231)
37 <221> NAME/KEY: intron
38 <222> LOCATION: (1232)...(2203)
40 <221> NAME/KEY: exon
41 <222> LOCATION: (2204)...(2326)
43 <221> NAME/KEY: intron
44 <222> LOCATION: (2327)...(2420)
46 <221> NAME/KEY: exon
47 <222> LOCATION: (2421)...(2558)
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61 cgctttttctc cttgggtggg cgcgcgagct ccccgagttt gagccgcaat ttttttacat 180
62 tttatggcga tggcgtcagg cgtttatcta ggcgtctggg agggtagatt tgaagatgtg 240
63 ccaccaactc caaaccgaca accctgtatc tgagcatgcc tcatgcctct ccttcatgcc 300
64 tccctttggg tgaggatcat tgcccttggc ggcgagtggc ttcccgttta gagcaagtat 360
65 aataagtcct agtcagctgg ctataagatg ttccacatca gcaaatacct aaactggagg 420
66 agaaagaaag taggagttag aagggcgtcg gcgcttcgtc aatcgctagc gatagcacia 480
67 gctcccatgg aatcgagcca acatgcaacc cgcacaatga ctaaaggcaa acgccagcca 540
68 atcagtatgc ctttctctgc atctttcttc atgcaagcat taaatactat agctaatact 600

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69 cagccagttt attatataaa caggctatat agctgacctg gcagtgcctat agagccggca 660
70 gccggctctt ctattagctt tgctcttatg gctacatctg tgtgagcagt cgattgattc 720
71 aaacaacaaa tccgggcgtt cagcaagtcg gaatgaattt cggtcatca ctcatgtcg 780
72 tgggcctcac gcgatttcgc ctaaccgtgt ttgaatcaga ccctcacgaa gccacggctc 840
73 cagcgacccg ttcaccacgt cagcctaaaa aaagaaaaaa aaactgttca atcacacgcc 900
74 catctgaacc gttcaacagc cccacgtaat ttgcgcgacc agcaaagggc atatccgtca 960
75 tagcgagcgc ataaattctg attcctgcct gcctgccgga caatttatct ttggggaggc 1020
76 gggccgggat tggagacaga gccacaagg caacaacaaa gtgcgcgtga gaaatcaaca 1080
77 agcgtgctt gccgagaaga gagagagaga g atg gcg gcg tgc gcg gcg acg 1132
78 Met Ala Ala Ser Ala Thr
79 1 5
81 gca acg gcg gcg gcg gtg ggg gcg ggg gag gtg atc tcc gtc cac acc 1180
82 Ala Thr Ala Ala Val Gly Ala Gly Glu Val Ile Ser Val His Thr
83 10 15 20
85 ctg gag cag tgg acc atg cag atc gag gag gcc aac gcc gcc aag aag 1228
86 Leu Glu Gln Trp Thr Met Gln Ile Glu Glu Ala Asn Ala Ala Lys Lys
87 25 30 35
89 ctg gtaacgatct ttccggatcg atctctccct ccccccctgt cttctccgc 1281
90 Leu
91 40
93 aaggcggcac gggccgggag aggatgctct tgtttcagat tggttggtga agttaagacc 1341
94 tggctcgtgc atgcggtggc cgcccgagga cgaatctgcg gttggtctgg ttgaattttg 1401
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96 atatcatctt ctcattgtta aaaggagaca gtttcagaac cgctgtgacc gctacttcct 1521
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98 tatatacata cttcagagta tagatcaact gttttgctcc gtatgtagta tgcagttcac 1641
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102 caccgaatta tcccttatac cgtggctgct gcagatttgc accaatattc cgtatgtaga 1881
103 tcccaaacgt ctctcaagt ttggcatagt aagatcgatt gtgctaactc cactaaaaac 1941
104 actgtaccag gaatttatat gatgatcatc ttgttgtttg tatatatatt tttgcggggg 2001
105 agtttataac tttccgtgga ttttcatctc tgaaattgtg gaacatcata aaattccagt 2061
106 gctattctct tcacgtgaat tataacctgg attgattgta agctctggta ggtgtttatg 2121
107 gtgttgaact agcagtagca ttattgacct atgctttgca catttgtgtc aaggtcctgt 2181
108 taacctgtgc gtttgaaca gg tgg tgg ttg act tca ctg cat cat ggt gtg 2233
109 Trp Trp Leu Thr Ser Leu His His Gly Val
110 45 50
112 gac cat gcc gca tca tgg ctc cag ttt tgc ctg atc tgc cca aga agt 2281
113 Asp His Ala Ala Ser Trp Leu Gln Phe Ser Leu Ile Ser Pro Arg Ser
114 55 60 65
116 tcc caa atg ctg ttt tcc tca agg tgc atg tgc atg aac tga agg 2326
117 Ser Gln Met Leu Phe Ser Ser Arg Ser Met Ser Met Asn * Arg
118 70 75 80
120 taatgaacc gatggcgctg ttacagagc acagagtatc atcgtgcgat ttcagagctg 2386
121 tgttactaac aaggttttat gttgtatgaa cagc cca ttg cgg agc aat tca gcg 2441
122 Pro Leu Arg Ser Asn Ser Ala
123 85
125 ttg agg cca tgc caa cct tcc tgt tca tta agg aag gag atg tca agg 2489

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126 Leu Arg Pro Cys Gln Pro Ser Cys Ser Leu Arg Lys Glu Met Ser Arg
127          90          95          100
129 aca ggg ttg tgg gag cta tca agg agg aac tga cga aca agg ttg ggc 2537
130 Thr Gly Leu Trp Glu Leu Ser Arg Arg Asn * Arg Thr Arg Leu Gly
131      105          110          115
133 tac acg cgg cgg ccc agt aat cacctagcgg agtagtattc gcctaaataa 2588
134 Tyr Thr Arg Arg Pro Ser Asn
135      120          125
137 aattgtggct caagaagcgg tgcctctaataa ggcaccttat atcctgtgta ctgcttggtta 2648
138 cttgttggtt ggatgatggt gaatcaagtg tgactttat 2687
140 <210> SEQ ID NO: 2
141 <211> LENGTH: 1111
142 <212> TYPE: DNA
143 <213> ORGANISM: Triticum aestivum
145 <400> SEQUENCE: 2
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147 agacgacggg gggcatgtg cctgttcctt ggcgaggcgt ctagcttttg cagccgccc 120
148 cgcttttctc cttgggtggg cgcgcgagct ccccgagttt gagccgcaat ttttttacat 180
149 tttatggcga tggcgtcagg cgtttatcta ggcgtctggg aggggtacatt tgaagatgtg 240
150 ccaccaactc caaaccgaca accctgtatc tgagcatgcc tcatgcctct cttcatgcc 300
151 tccctttggg tgaggtcag tgcccttggc ggcgagtggc ttcccgttta gagcaagtat 360
152 aataagtcct agtcagctgg ctataagatg ttccacatca gcaaatcctt aaactggagg 420
153 agaaagaaag taggagttag aagggcgtcg gcgttcgtc aatcgctagc gatagcaca 480
154 gtccccatgg aatcgagcca acatgcaacc cgcacaatga ctaaaggcaa acgccagcca 540
155 atcagtatgc ctttctctgc atctttcttc atgcaagcat taaatactat agctaata 600
156 cagccagttt attatataaa caggctatat agctgacctg gcagtgtctat agagccggca 660
157 gccggctctt ctattagctt tgccttatg gctacatctg tgtgagcagt cgattgattc 720
158 aaacaacaaa tccgggctgt cagcaagtcg gaatgaattt cggctcatca ctcatgtcg 780
159 tgggcctcac gcgtattcgc ctaaccgtgt ttgaatcaga ccctcacgaa gccacggctc 840
160 cagcgacccg ttcaccacgt cagcctaaaa aaagaaaaaa aaactgttca atcacacgcc 900
161 catctgaacc gttcaacagc cccacgtaat ttcgcgcacc agcaaagggc atatccgtca 960
162 tagcgagcgc ataaattctg attcctgcct gcctgccgga caatttatct ttggggaggc 1020
163 gggccgggat tggagacaga gccacaagg caacaacaaa gtgcgcgtga gaaatcaaca 1080
164 agcgtgtctt gccgagaaga gagagagaga g 1111

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VERIFICATION SUMMARY

PATENT APPLICATION: US/09/979,549

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Output Set: N:\CRF3\11212001\I979549.raw

L:15 M:270 C: Current Application Number differs, Replaced Current Application Number

L:16 M:271 C: Current Filing Date differs, Replaced Current Filing Date